

## CSIRO - MINERAL RESEARCH LABORATORIES

## SKYLAB-EREP QUARTERLY REPORT FOR PERIOD ENDING 31.1.75

1. Title of the investigation - A study of the usefulness of SKYLAB-EREP data for earth resources studies in Australia.
2. NASA HQ proposal identification number - SR 557.
3. Accomplishments - Studies are in progress in two areas. In the Snowy Mountains area, a comparison is being made between the geological structures as inferred from aerial photography, Skylab imagery, and the structures as encountered in excavation of long tunnels for irrigation and power development. In the Alice Springs area, studies are in progress on the extraction of geological data on the basis of statistical analysis of spatial texture.  
In previous reports figures have been cited for the comparative resolution of the Skylab photography based upon visual perception of natural geological objects. As a result of further studies of the nature of the targets and optical and perception properties of the imaging system, these figures are now being re-evaluated.
4. Significant results - Preliminary results show that the high-resolution imagery has, potentially, an operational role in geological surveying and the design of major engineering works, and is much more promising in this regard than the low-resolution Skylab and ERTS-1 imagery.
5. Major problems - None.
6. Published articles - None.
7. Recommendations - None.

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semination of Earth Resources Survey  
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SKYLAB EREP DATA FOR EARTH RESOURCES STUDIES  
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